

Claims

1. Method for detecting a radio coverage in a multicellular mobile radio system with a plurality of base stations (BS1 to BS9) which are connected to an evaluation unit (AE),
5 characterized in that
all base stations are switched consecutively into a measuring operating mode, whereby a relevant field strength (FS1 to FS4, FS6 to FS9) of locally adjacent base stations which are operating in a normal operating mode (BS1 to BS4, BS6 to BS9)
10 is measured, and the measured field strength data is evaluated by the evaluation unit (AE).
2. Method as claimed in claim 1,
characterized in that
the base station (BS5) switched into the measuring operating
15 mode in each case is synchronized with the base stations (BS1 to BS4, BS6 to BS9) operating in normal mode.
3. Method as claimed in claim 2,
characterized in that
a quality of the synchronicity is measured and evaluated.
- 20 4. Method as claimed in one of the claims 1 to 3;
characterized in that
the radio coverage detection is undertaken in cycles, with a current evaluation result being compared with at least one previous evaluation result.
- 25 5. Method as claimed in one of the claims 1 to 4;
characterized in that
the evaluation unit (AE) controls the base stations automatically and evaluates the measured field strength data automatically.
- 30 6. Method as claimed in one of the claims 1 to 5;

characterized in that
the measured field strength data has a base station
identification.

7. Method as claimed in one of the claims 1 to 6;
5 characterized in that
the evaluation unit (AE) modifies the mobile radio system
depending on the evaluation result.

8. Method as claimed in one of the claims 1 to 7;
characterized in that
10 the evaluation unit (AE) creates field strength maps for
determining the positions of mobile units.

9. Method as claimed in one of the claims 1 to 8;
characterized in that
the multicellular mobile radio system is designed in
15 accordance with the DECT standard.

10. Arrangement for detecting a radio coverage in a
multicellular mobile radio system with a plurality of base
stations which are connected to an evaluation unit (AE),
characterized in that,
20 at least one base station (BS5) is operated in a measuring
operating mode, in which a relevant field strength (FS1 to
FS4, FS6 to FS9) of locally adjacent base stations which are
being operated in a normal operating mode is measured, and
the evaluation unit (AE) evaluates the measured field strength
25 data in each case.

11. Arrangement as claimed in claim 10,
characterized in that
the base station (BS5) operated in the measuring operating
mode in each case is synchronized with the base stations (BS1
30 to BS4, BS6 to BS9) operated in normal mode.

12. Arrangement as claimed in claim 10 or 11,
characterized in that
the radio coverage detection is undertaken in cycles, with a
current evaluation result being compared with at least one
5 previous evaluation result.

13. Arrangement as claimed in one of the claims 10 to 12,
characterized in that
the measured field strength data has a base station
identification.

10 14. Arrangement as claimed in one of the claims 10 to 13,
characterized in that
the evaluation unit (AE) modifies the mobile radio system
depending on the evaluation result.

15 15. Arrangement as claimed in one of the claims 10 to 14,
characterized in that
the evaluation unit (AE) creates field strength maps for
determining the positions of mobile units.

16. Arrangement as claimed in one of the claims 10 to 15,
characterized in that
20 the multicellular mobile radio system is designed in
accordance with the DECT standard.